

8. {AMENDED} For use in a telecommunications network having a physical layer which includes Asynchronous Transfer Mode (ATM) entities, a call layer, and a connection layer, with a separation between the call layer and the connection layer whereby the call layer and the connection layer utilize differing signaling entities in the physical layer, a method comprising:

in the call layer, transmitting an ATM end system address (AESAs) from a first end node of the network to a second end node of the network, the ATM end system address (AESAs) being for a first connection end point at the first end node;

reserving a second connection end point at the second end node;

sending a connection request from the call layer to the connection layer, the connection request including the ATM end system address (AESAs) for the first connection end point at the first end node;

routing connection layer signaling through the connection layer to the first end node using the ATM end system address (AESAs) for the first connection end point at the first end node;

at the first end node, using the ATM end system address (AESAs) for the first connection end point at the first end node included in the connection layer signaling to through connect an ATM switch in the physical layer to the first connection endpoint.

9. {AMENDED} For use in a telecommunications network having a physical layer which includes Asynchronous Transfer Mode (ATM) entities, a call layer, and a connection layer, with a separation between the call layer and the connection layer whereby the call layer and the connection layer utilize differing signaling entities in the physical layer, a method comprising:

associating a dynamic routing number both with a first end node of the network and with a first connection end point at the first end node;

in the call layer, transmitting the dynamic routing number to a second end node of the network;

reserving a second connection end point at the second end node;

sending a connection request from the call layer to the connection layer, the connection request including the dynamic routing number;

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routing connection layer signaling through the connection layer to the first end node;
at the first end node, using the dynamic routing number included in the connection
layer signaling to obtain the first connection end point.

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19. {AMENDED} A telecommunications network including a first end node and a second end node which are connected by separated call and connection layers, wherein the first end node associates binding information with connection endpoint information for a first connection end point at the first end node and transmits the binding information through the call layer to the second end node so that, upon receipt of a connection layer signaling routed from the second end node to the first end node through the connection layer, the first end node uses the binding information carried in the connection layer signaling to obtain the connection endpoint information for the first connection end point.

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26. {AMENDED} A telecommunications network including a first end node and a second end node which are connected by separated call and connection layers, wherein the first end node transmits an ATM end system address (AESA), the ATM end system address (AESA) being for a first connection end point at the first end node, so that upon receipt of connection layer signaling routed through the connection layer from the second end node to the first end node using the ATM end system address (AESA) for the first connection end point at the first end node, the first end node uses the ATM end system address (AESA) for the first connection end point at the first end node to through connect an ATM switch in the physical layer to the first connection endpoint.

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29. {AMENDED} A telecommunications network including a first end node and a second end node which are connected by separated call and connection layers, wherein the first end node includes connection endpoint information for a first connection end point of the first end node of the network in a routing number of the first end node, so that upon receipt of connection layer signaling routed through the connection layer from the second end node to the first end node using the routing number of the first end node, the first node uses the connection endpoint information for the first connection end point of the first end